

17691

21819

3 Hours / 100 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following: **20****
- a) State importance of process control in weaving.
 - b) List down the steps involved in minimizing breaks in warping.
 - c) Elaborate scope and approach of process control in sizing.
 - d) State the level of winding tension at pirn winding for coarse, medium and fine count weft.
 - e) Describe the scope and approach to process control in loom shed.
 - f) Describe the ten point system for fabric checking.
 - g) Describe various precautions to be taken for preparation of package for dyeing.
 - h) Describe the method to control loom speed for group individual drive in loom shed.

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- 2. Attempt any FOUR of the following:** **16**
- a) Describe overall approach to process control in weaving.
 - b) State various measures to improve quality of warping beam.
 - c) List down various precautions to be taken while preparation of size paste.
 - d) State various factors which are to be considered for minimizing breaks at pirn winding.
 - e) List down various causes of warp breaks in loom shed.
 - f) What is 'Lashing-in'? Discuss causes and remedies of the same.
- 3. Attempt any FOUR of the following:** **16**
- a) How to set norms for process control in weaving?
 - b) State measures to control productivity in warping.
 - c) List down various factors which govern size pick-up of warp.
 - d) Mention selection procedure of shuttle. Sketch autoloom shuttle and label the same.
 - e) List down various cause for loom stops due to mechanical failure.
 - f) Describe method for selection and care healdframe and reed.
- 4. Attempt any FOUR of the following:** **16**
- a) What is machinery audit? State its importance in process control activity.
 - b) Give procedure of setting the norms for the hard waste at warping.
 - c) List down various measures to control stretch at various zone at sizing.
 - d) Explain various measures to be taken for dressing and knotting as well as drawing in operation.
 - e) Describe the concept of optimum loom allocation.
 - f) Describe the approach to process control activity in loom shed with respect to fabric defects.

5. Attempt any TWO of the following:**16**

- a) List down various measure to control sized beam quality with respect to.
- (i) Density
 - (ii) Broken ends
 - (iii) Missing ends
 - (iv) Crossed ends
 - (v) Sticky ends
 - (vi) Defective selvages.
- b) What is snap study technique? Describe the methods to assess loom performance and control of efficiency through snap study technique.
- c) Describe the precautions to be taken while processing polyester/ cotton blended yarn in weaving preparatory and loomshed.

6. Attempt any TWO of the following:**16**

- a) Describe various steps involved in manufacturing of full voile.
- b) Enumerate the scope and approach to process control of process and incidental waste in winding warping and sizing.
- c) (i) Discuss steps taken to control of loom stops due to weft breaks.
- (ii) What are the characteristics of a good build pim?
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